M.R.O. 1—77,006—8-6-37.

(1) Number of pages 4

(2) Date of repair 6-7-64

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No. 2492

Press ~~Mis.~~

512-13

Dated 29. 9 1871.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department,
29th September 1871.

No. 512. Read the following letter from the Executive Engineer on special duty, Madura District, to the Acting Chief Engineer for Irrigation, dated Madura, 19th August 1871, No. 158 :—

I HAVE the honour to submit the subjoined report showing the progress made during the past month in maturing and preparing the scheme for the diversion of the Perryaur.

2. The plans and estimates for the several works are rapidly approaching completion and will soon be ready for submission.

3. The examination of the country in the vicinity of the Goodaloor Tavalum was commenced by Lieutenants Greer and Rawson in the early part of the month, and has been steadily proceeded with.

4. From the sections taken by these officers it appears that Lieutenant Christie's levels, although not quite accurate, fairly represent the general level of the country in those parts, and that a thorough investigation of the Perryaur valley for some miles west of the Nellacumputty Tavalum is certainly necessary.

5. The diagram and register showing the discharge of the Perryaur and the rainfall during the month under review are enclosed. The rainfall (17·20 inches) is the greatest that has been registered at the Perryaur camp.

PERRYAUR PROJECT.

Table of Rainfall and Discharge of Perryaur during July 1871.

Date.	Rainfall at		Hours.	Water level in feet.	Discharge.	
	Perryaur Camp.	Nellacum-putty.			Cubic feet per second.	1,000 Cubic yards per day.
	INCHES.	INCHES.				
1st	0·04	......	6 A. M.	0·88	583	1,865
			6 P. M.	0·88	583	
2nd	0·52	......	6 A. M.	0·85	572	2,118
			6 P. M.	1·30	752	
3rd	1·10	......	6 A. M.	2·35	1,367	847
			3 P. M.	2·70	1,569	1,762
			6 P. M.	3·51	2,055	725
			12 Mid.	3·70	2,198	1,701
4th	0·43	......	6 A. M.	3·45	2,009	6,086
			6 P. M.	3·10	1,794	
5th	0·49	......	6 A. M.	3·22	1,865	6,416
			12 Noon.	3·66	2,166	
			6 P. M.	3·41	1,984	
6th	0·40	......	6 A. M.	3·64	2,150	6,504
			6 P. M.	3·30	1,915	
7th	0·27	......	6 A. M.	3·76	2,247	6,611
			6 P. M.	3·25	1,885	
8th	0·15	......	6 A. M.	3·38	1,966	1,540
			9 A. M.	4·90	3,376	1,068
			12 Noon.	4·64	3,104	1,296
			6 P. M.	3·58	2,105	2,084
9th	0·51	......	6 A. M.	2·80	1,624	1,492
			12 Noon.	2·84	1,647	5,075
			6 P. M.	2·55	1,487	

Table of Rainfall and Discharge of Perryaur during July 1871.—(Continued.)

Date.	Rainfall at Perryaur Camp.	Rainfall at Nellacumputty.	Hours.	Water level in feet.	Discharge. Cubic feet per second.	Discharge. 1,000 Cubic yards per day.
	Inches.	Inches.				
10th	0·39	......	6 A. M.	2·45	1,429	5,155
			6 P. M.	3·10	1,794	
11th	0·45	......	6 A. M.	3·30	1,915	6,681
			12 Noon.	3·79	2,270	
			6 P. M.	3·55	2,079	
12th	0·74	......	6 A. M.	3·51	2,055	7,078
			12 Noon.	3·58	2,105	
			6 P. M.	4·05	2,475	
13th	0·42	......	6 A. M.	4·36	2,830	8,486
			6 P. M.	4·05	2,475	
14th	0·50	......	6 A. M.	3·83	2,305	7,318
			6 P. M.	3·79	2,270	
15th	0·39	......	6 A. M.	4·25	2,717	8,237
			6 P. M.	3·97	2,431	
16th	0·52	......	6 A. M.	4·67	3,086	8,762
			12 Noon.	4·11	2,564	
			6 P. M.	4·11	2,564	
17th	2·46	......	6 A. M.	4·74	3,220	2,314
			9 A. M.	5·48	3,952	1,434
			12 Noon.	5·72	4,193	1,629
			6 P. M.	6·10	4,607	3,520
			9 P. M.	5·90	4,478	1,817
18th	2·02	1·97	6 A. M.	6·47	4,938	1,883 3,766
			9 A. M.	7·10	6,370	2,262
			12 Noon.	7·40	6,490	2,572
			6 P. M.	7·80	6,660	5,260
			9 P. M.	7·42	6,499	2,632
			12 Mid.	7·42	6,499	2,599
19th	2·16	1·80	6 A. M.	8·35	7,380	5,552
			10 A. M.	8·90	8,095	4,127
			12 Noon.	9·60	9,174	2,303
			2 P. M.	10·00	10,056	2,564
			4 P. M.	10·54	10,664	2,763
			6 P. M.	10·71	10,925	2,879
			9 P. M.	10·59	10,728	4,331
			12 Mid.	10·08	9,928	4,131
20th	1·55	1·66	6 A. M.	9·69	9,309	7,695
			9 A. M.	9·00	8,285	3,519
			12 Noon.	8·46	7,523	3,162
			3 P. M.	8·00	6,925	2,890
			6 P. M.	8·08	7,029	2,791
			9 P. M.	8·60	7,705	2,947
			12 Mid.	7·81	6,674	2,876
21st	0·14	0·25	6 A. M.	7·30	6,025	16,797
			12 Noon.	6·72	5,114	
			6 P. M.	6·10	4,607	
22nd	0·04	0·08	6 A. M.	4·98	3,452	9,958
			12 Noon.	4·71	3,191	
			6 P. M.	4·23	2,692	
23rd	0·15	0·30	6 A. M.	3·66	2,166	6,406
			12 Noon.	3·41	1,984	
			6 P. M.	3·20	1,856	
24th	0·00	0·00	6 A. M.	2·75	1,602	4,851
			6 P. M.	2·46	1,430	
25th	0·01	0·00	6 A. M.	2·40	1,398	4,224
			6 P. M.	2·15	1,242	

Table of Rainfall and Discharge of Perryaur during July 1871.—(Concluded.)

Date.	Rainfall at Perryaur Camp.	Rainfall at Nellacum-putty.	Hours.	Water level in feet.	Discharge. Cubic feet per second.	Discharge. 1,000 Cubic yards per day.
	Inches.	Inches.				
26th	0·03	0·01	6 A. M.	1·90	1,074	3,286
			6 P. M.	1·75	981	
27th	0·01	0·03	6 A. M.	1·58	884	2,781
			6 P. M.	1·42	855	
28th	0·24	0·40	6 A. M.	1·30	752	2,406
			6 P. M.	1·30	752	
29th	1·01	0·95	6 A. M.	1·52	806	3,677
			6 P. M.	2·15	1,242	
			12 Mid.	2·40	1,398	
30th	0·06	0·01	6 A. M.	2·40	1,398	3,821
			12 Noon.	2·05	1,173	
			6 P. M.	1·80	1,012	
31st	0·00	0·00	6 A. M.	1·60	893	2,742
			6 P. M.	1·45	821	
Total...	17·20					246,074

Depth run off from Catchment Basin of 250 square miles = 11·44 inches.

Mean discharge ... ... { 7,937,871 Cubic yards per diem.
330,744 ,, ,, per hour.
2,487 ,, feet per second.

	Cubic yards.
Discharge of Perryaur in July 1871	246,074,000
Do. of do. in July 1869	89,672,000
Difference—Excess in July 1871...	156,402,000

Madura,
19*th August* 1871.

(Signed) R. SMITH,
Ex. Engr. on special duty,
Madura District.

No. 513. Order thereon, 29th September 1871, No. 2,492.

IRRIGATION, No. 32.

Ordered to be recorded.

(True Extract.)

Captain, R.E.,
Under Secretary to Government.

To the Chief Engineer for Irrigation.
To R. Smith, Esq.
To the Superintending Engineer, 8th Division.

Exd. E. C. Shunker.

Public Works 1871 Department

No. 158

From — No. 4211

The Executive Engineer
On special duty
Madura Distt

To

The Actg Chief Engineer
for irrigation.
Fort St George

Dated 19th }
Despd 19th } August 1871.
Received
Received 1st September 1871.

Enclosures 2

Submits the Report showing the progress made, during the month of July, in maturing and preparing the Schemes, for the diversion of the Perryaur

No. 4927 29th Septr /71
With order

No. 2492.

Recorded.

Cii

Ch: Engr for Irrign
R. Smith Esqr
Supta Engr 8th Dn

Despd 2/10/71.

C. Coty 7 Septr/71 Retd 20

C-No-4211

Govt. of (1871) Madras.

PUBLIC WORKS

To The Chief Engr for Irrigation

Dated.

Recd. Encl. 2

G. O. 29th Sept 1871, No 2492.

Nos. 512 & 513

Perryaur project - Executive Engineer's report of the progress made during the month of July in maturing & preparing the scheme for the diversion of the Perryaur. Recorded